lumenpulse™
Sustainable architectural LED lighting systems

lumenID™ V3 Software User Manual

Your fixture has a lot to say.

- Hello my name is Lumenbeam™ Grande
- My DMX address is 125
- My temperature is 32° C
- My personality is 16-bit
- Remaining hours till L70: 102,567
- My serial number is 06500005

DMXrdm

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I Introduction

Thank you for using Lumenpulse™ and the LumenID™ (LID). Lumenpulse offers a wide variety of architectural LED fixtures with DMX/RDM controllable capabilities for White and Color Changing fixtures. The LID is a tool that offers you, the end user, the capability to control, test and demonstrate these fixtures directly from your computer. Additionally, the LumenID is designed as a tool to assign DMX addresses to an entire installation of Lumenpulse DMX/RDM enabled fixtures quickly and easily.

Paired with Lumenpulse's lumenID™ V3 (LID V3) software, RDM provides a simple, efficient way to manage lighting systems and devices. With RDM, important system information is always just a click away, ensuring that you can easily and freely discover, address and program devices.

DMX/RDM provides a number of benefits for stakeholders throughout the construction, commissioning and property management stages, including: simplified fixture discovery; remote DMX addressing; improved error reporting; and easy firmware updates.

In this manual you will find detailed instructions to help you understand and use your LID as a part of every Lumenpulse sample demonstration or architectural installation.

II Set-Up

List of Materials

1. Lumenpulse LumenID Open DMX USB Box (LID device with latest firmware)
2. USB cable
3. DMX cable
4. PC/ laptop (not supplied)

   Minimum system requirements:

   - Windows XP, Windows 7 or Windows 8
   - 1024 x 768 screen resolution (1280 x 1024 recommended)
   - 512MB memory (1GB recommended)
   - Clock frequency : 1Ghz
5. DMX/RDM enabled CBX (order separately)
6. RDM-enabled luminaire (order separately)
7. LID V3 software
   (Refer to the Lumenpulse website for the LID V3 software, downloaded for free).

1.1 Install Software

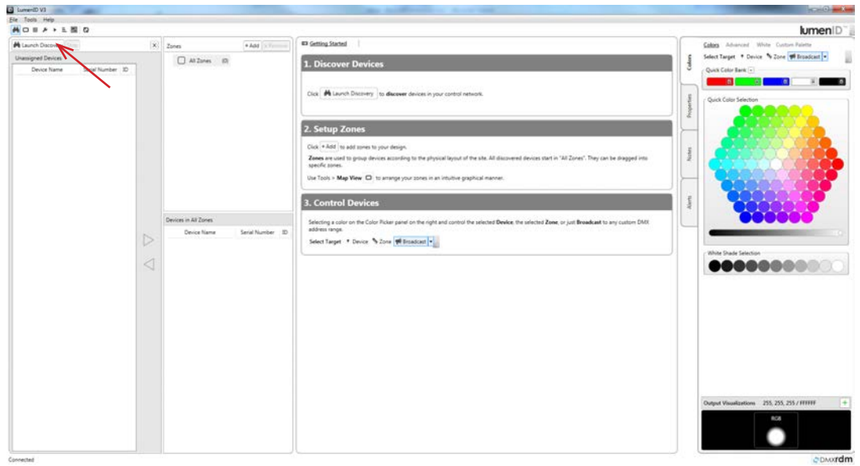
1. Download LID V3 software from the Lumenpulse website
2. Run setup.exe
3. Follow the instructions

Install LID V3 program file:
Run the installation program and follow the instructions. The recommended set-up is "Typical", which will automatically launch the LID device driver installation program.

Note: in order to successfully install the device drivers in Windows 7 or higher, the installation program should be run as Administrator (right-click the set-up file and select Run as Administrator).

Starting Software

- Plug in LID to PC
- Start LID V3 software
- When the software is opened, the Discovery window is open on the left-hand side of the screen. If you do not see this, click on to open the Discovery Panel.
- Click on the button to discover fixtures over the RDM network.



For any questions, refer to "Getting Started" instructions from the software by clicking on the Getting Started tab.

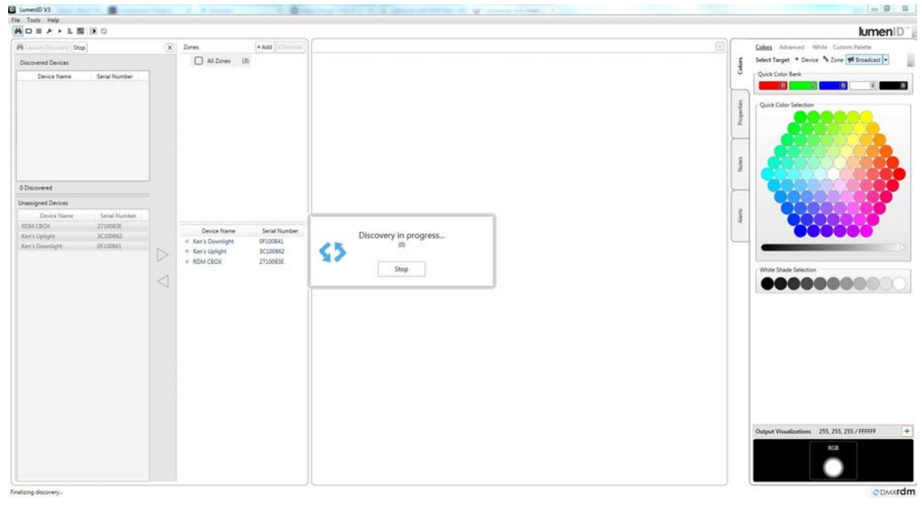
Use the icons in the toolbar to jump between the different control features of LID V3.

	Discovery
	Map View
	Patch View
	Properties
	Lumenlive Player

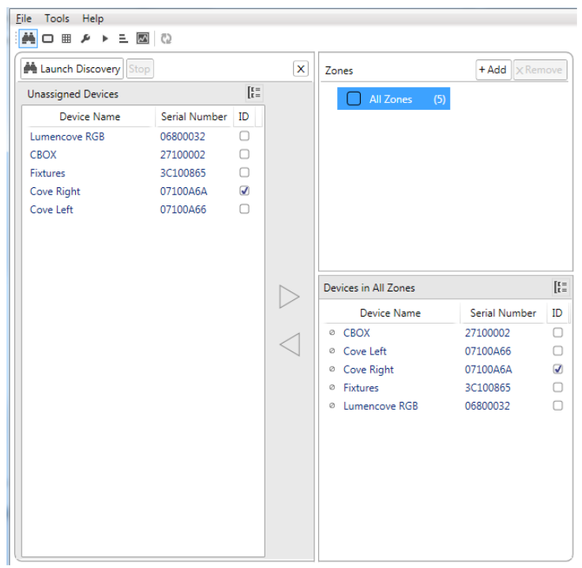
	DMX Live View
	Dashboard
	Refresh

1.2 Fixture Discovery

Software Running a Discovery Action

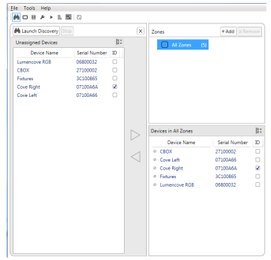


The Launch Discovery button, located on the top left-hand corner of the software window will be disabled when discovery is in progress.

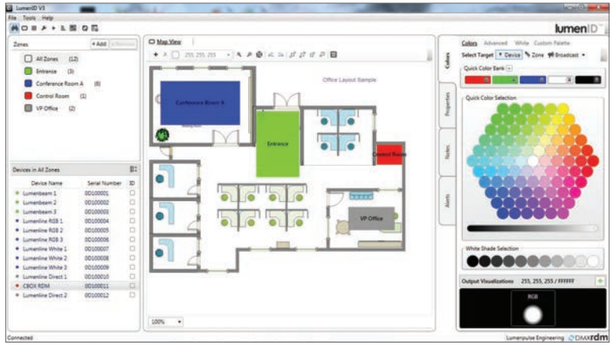


III Features

- Create zones by clicking on the "+ Add" button. These zones can then be named, resized, and have their background colors changed to user-specific colors using the Map View.
- Next the user can highlight and drag, or highlight and click the ▶ button to associate the fixtures/devices with a zone.
- Next close the Discovery window by clicking on the "X".



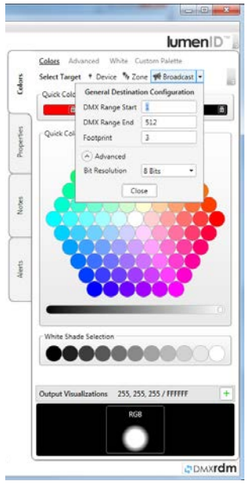
2.1 Fixture Mapping With Map View



- Image formats: JPG, PNG, BMP, TIFF, GIF
- Recommended size: 1024 x 768 pixels (minimum image width: 400 pixels, minimum image height: 300 pixels)

- To add Plan View of installation, click on the click on the Background Image toolbar button and select the file from your folder.

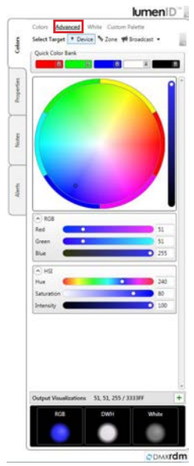
2.2 Lighting Control Tools



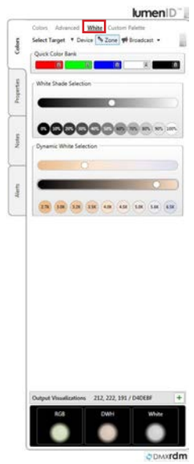
- From here the user can test all discovered devices by selecting either the "All Zones" or the "Broadcast" buttons and selecting a color from the Quick Color Picker.
- Note: upon initial discovery, all devices are pre-programmed to DMX start address 1.

- Users can use "Target Selection" to choose if they want to control either individual zones, devices, or to broadcast to the entire DMX Universe or a selected range in the 1-512 DMX range.

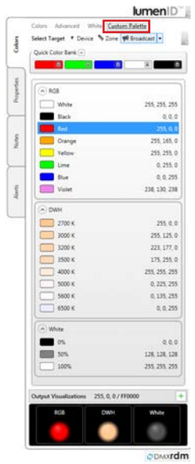
1. Simple Color Picker



2. Advanced Color Picker



3. Dynamic White Color Picker

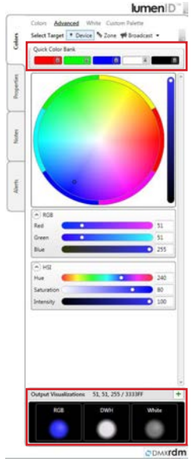


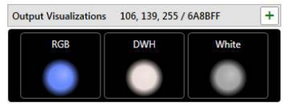
4. Custom Palette Picker

- **Simple Color Picker** (1) and **Quick White Shade Selection** (1) can be used for high-level color picking / sampling of outputs.
- **Quick Color Bank** (1-4) can be used as a comparison tool for up to 4 colors.
- **Advanced Color Picker** (2) allows you to move around the color picker and see the actual RGB or HSI values being output to the fixtures. Using the sliders you can anticipate what the color will change to by sliding to the left or right.
- **Dynamic White Color Picker** (3) allows for easy selection between color temperatures ranging for 2200K to 6500K, for DWH fixtures only.
- **Custom Palette Picker** (4) allows the user to save and rename colors for either comparison or to use later on as part of the show file.

Quick Color Bank:

- Right-click to save color to Custom Palette.
- Lock colors you like to compare up to 4 specific colors.
- Unlock the color to continue playing.
- Output Color shows across the bottom so that you can easily compare current colors with desired changes.



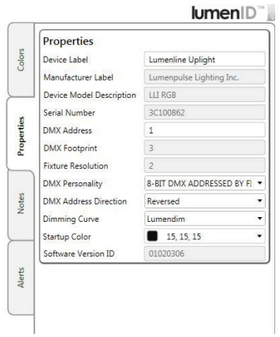


Output Visualization:

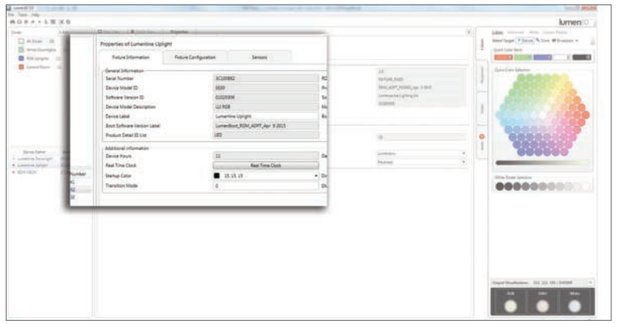
- Enables the user to quickly understand what the output will be depending on if they are controlling RGB, DWH, or static white products.
- Right-click to save color to Custom Palette.

2.3 Quick Properties View

- The "Quick Properties" tab allows the user to view the high-level information about a device, change particular parameters of the device like Name, DMX Address, Personality, DMX Address Direction, Dimming Curve and Startup Color.
- Other parameters are "view only" including Manufacturer Name, Device Model Description, Serial Number, DMX Footprint, Fixture Resolution and Software Version ID.
- This properties viewer is available at any time on the right-hand side of the software.

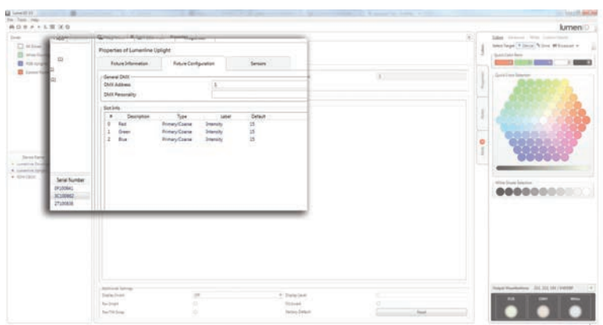


2.4 Advanced Properties View - Fixture Information Tab



The Advanced Properties view is used to see all of the available RDM Parameters together. The above image is an example of the "Fixture Information Tab".

Advanced Properties View - Fixture Configuration Tab



Here is the "Fixture Configuration Tab," which includes DMX Address, DMX Footprint, Personality Setting, and Slot Information.

Addressing:

DMX512 is a communication protocol which is standard in the lighting industry for controlling RGB and dimmable fixtures. The DMX signal is streamed from a controller, like the Lumentouch 2.0 or Lumencue, to every light fixture in an installation. If you want to individually control a single light fixture out of a group, then that fixture must be given a separate identity. In DMX512, this separate identity is called a DMX address.

Control Resolution:

Lumenpulse fixtures offer different resolutions of control, allowing a user to specify a fixture to be controlled as a whole (per fixture – 1FX), or to have finer resolution within a fixture. For our linear fixture, you can choose to control each linear foot independently (per foot – 1FT) while our Lumenbeam XLarge fixture allows individual control of each of the 3 LED boards (per board – 1BD).

DMX Footprint:

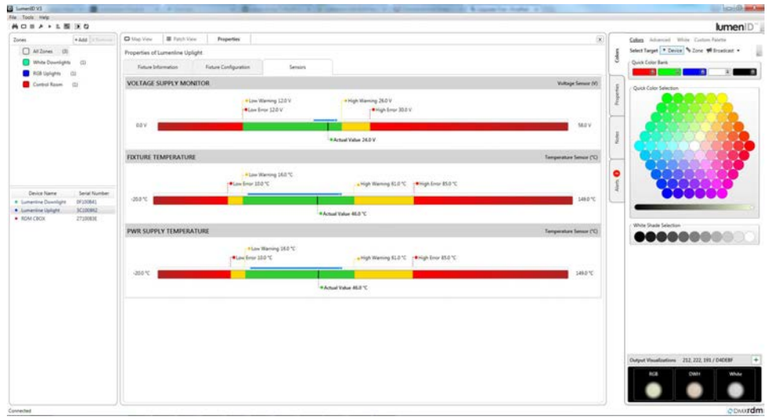
A DMX footprint refers to how many DMX512 channels a fixture will require in order to achieve full control of a fixture. For example, a Lumendome RGB fixture is a single pixel, using a separate DMX512 channel for each color – Red, Green and Blue.

- R = 1
- G = 2
- B = 3

Therefore, we can state that the DMX footprint for a Lumendome RGB fixture is 3. Likewise, a 48" long Lumenfacade RGBW, with per foot resolution, will use 4 DMX512 channels (Red, Green, Blue, and White) for each 12" portion of the fixture. We can therefore determine that the DMX footprint of the fixture is 16, or 4 channels per foot.

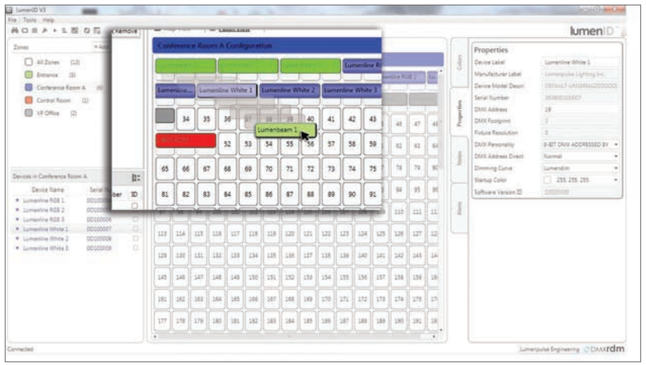
IV Sensors

Advanced Properties View - Sensors Tab



The "Sensors Tab" is where you can find all the Sensor Feedback information. Fixture PSU Voltage, Fixture Temperature, and PSU Temperature can be monitored live. Here you are able to adjust your Low/High Warning levels for RDM Alerts.

3.1 Patch View



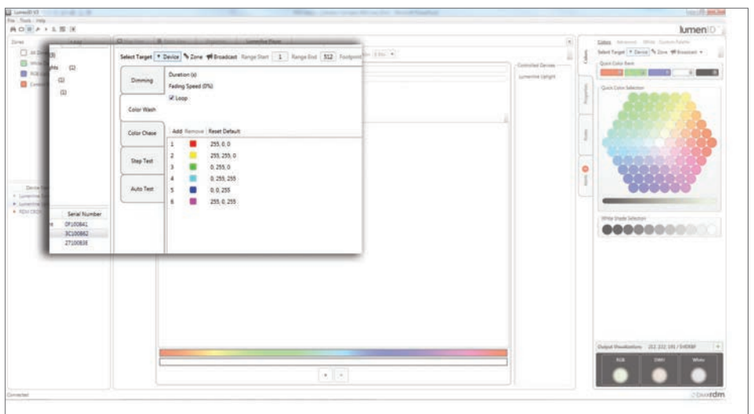
Note: upon initial discovery, all devices are pre-programmed to DMX start address 1.

- By using the Patch View, the user can see what DMX addresses a particular fixture is taking up in the DMX Universe. This can be viewed also by zone to see where fixtures are addressed in the DMX Universe.
- The user can drag and drop a fixture wherever they would like in the Patch screen and LID will automatically update the DMX Address of the fixture once you drop the fixture on a new address.
- The colors of the fixure groups are set by their association to a control zone.

Note: Make sure to set your fixture properties prior to patching. Adjustment of the fixture personality may shorten or expand DMX channel capacity of each fixture.

3.2 Lumenlive Player ▶

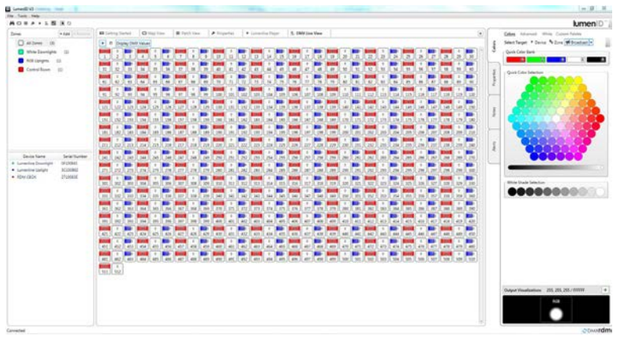
The LumenLive Player is used for demonstration shows, quick tests, channel checks and other quick-effect viewing needs.

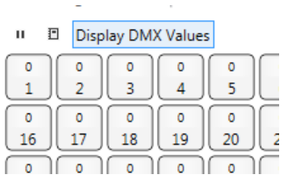


It consists of the following shows:

- **Dimming:** Ability to adjust the time of a Dim Up and Down of a white Light Output.
- **Color Wash**: Can be customized with different colors using a color picker, durations and fade speeds.
- **Color Chase**: Simple node chase with customized node color and background color. Node size, speed, fades and rest times are all adjustable.
- **Step Test**: Allows a user to step through their system fixture by fixture, like a channel check. Users can adjust the number of channels to step at a time, duration of step, intensity and loop.
- **Auto Test**: This is a simple test pattern to see the individual channels of a fixture. The user can adjust the step duration and fade speed as the effect steps through the 5 present outputs for Red, Green, Blue, White and Black.

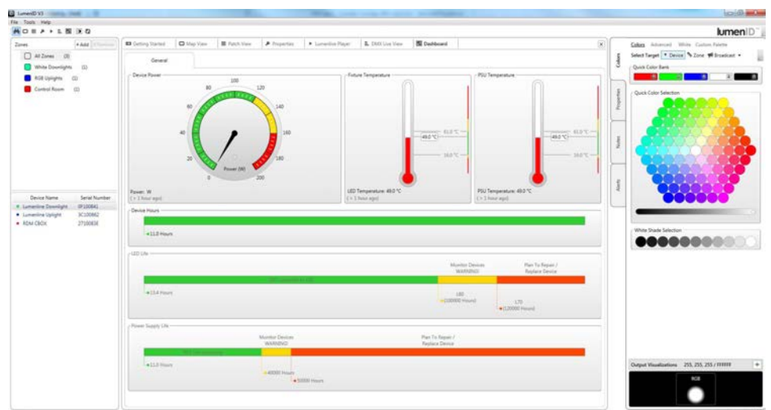
3.3 DMX Live View





- DMX Live View acts like a DMX Sniffer on the data line. You can look at the values being output by the software or controller on the network and visually see what values and color levels are being output on the control signal.
- This enables a technician to try and view faulty data from a controller.
- Using the Log function a technician can go back and see the values output at a given time that was logged during their testing session.

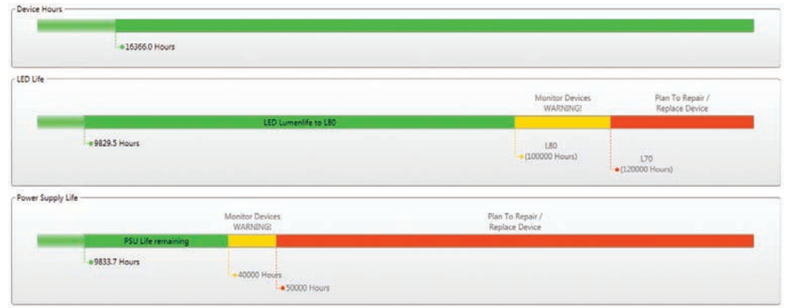
3.4 Dashboard



Simple monitoring of individual products and zones.

Note: Select either a zone or a group of fixtures from the list to view the average value you would like to monitor.

3.5 Lumenlife™



Lumenlife is a patented method for estimating the life expectancy of a fixture by taking into account the environmental factors that influence lifetime, rather than merely the past hours of operation. With Lumenlife, we can better estimate when a luminaire reaches L70 and even issue alerts as the luminaire starts to approach the end of its useful lifetime.

For more information, please consult the Lumenpulse Terms and Conditions at http://www.lumenpulse.com/en/terms.

V LumenID Firmware Update

Note: LID V3 operates with the latest version of LID hardware only. If you are having trouble discovering please double-check your firmware version and follow the steps below.

Step 1: Update LID Hardware

- LumenID updated firmware is provided as part of the LID V3 software package. For additional support, please install Enttec's DMX PRO Manager – download link below:
  http://www.enttec.com/?main_menu=Products&pn=79003
- Run DMX Pro Manager, connect to your device, and update it to the latest firmware
  The status screen will read the latest revision and you will have green checks for DMX and RDM
  All set – note: you can also use this tool for sending and receiving DMX aka testing

Step 2: Install LATEST LID Software

C

- Download and install the latest version – download link below, installation steps on page 7
  http://www.lumenpulse.com/en/product/46/lumenid

Step 3: Restart PC

Step 4: Enjoy your new software!

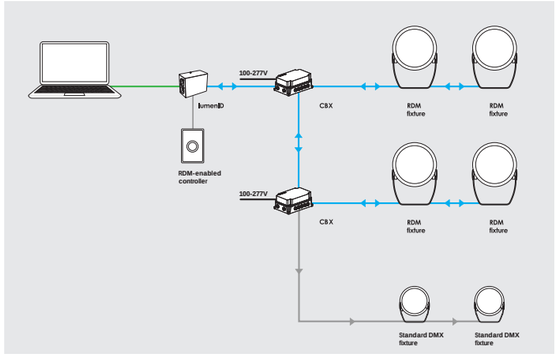
VI Demonstration

If you have not already installed the LID software and drivers, please follow the steps in the Set-Up section.

The LID is a powerful tool for table-top demonstrations or mockups of Lumenpulse DMX fixtures. It allows instant access to basic dimming, RGB colors and color fades, or the ability to dial in specific colors using the full Color spectrum. To prepare for a demonstration, you only need the LID controller and cable assemblies, and a Lumenpulse DMX/RDM-enabled fixture to demonstrate.

Parts needed:

1. LID device
2. USB cable
3. Laptop/PC with software install
4. DMX cable



Process:

1. Plug in LID to PC
2. Start LID V3 software
3. Plug in DMX cable
4. Plug in fixtures
5. Use LumenLive Player for demonstration

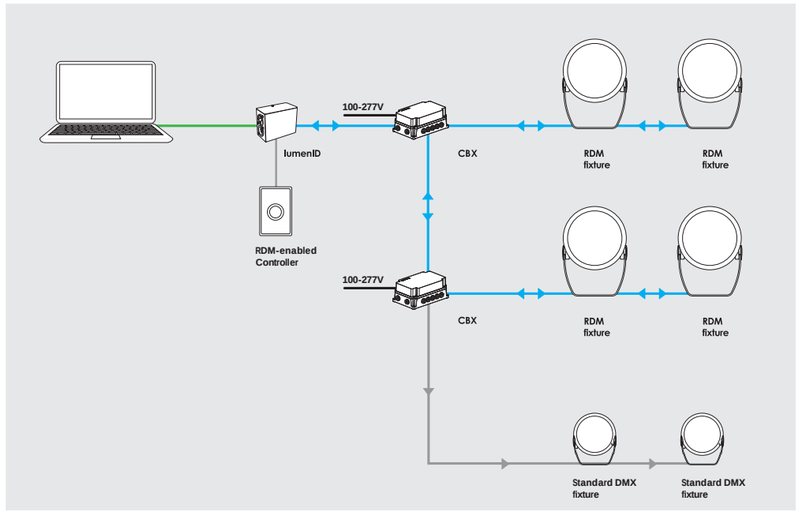
4.1 Connection for Commissioning and Monitoring

Before you begin addressing your fixtures, you must make sure that you are connected to your fixtures correctly. Refer to page 5 for instructions.

DMX/RDM Protocol Limits

- Data length: 1000' between boosted devices
- Number of devices connected to a CBX: 32 per output
- Cascading CBX limit: 4

Typical Control Layout



VII Customer Support

If, at any time, you encounter problems or have questions regarding your use of LID or any Lumenpulse products, please do not hesitate to contact Lumenpulse customer support. We are dedicated to customer service and seeing every Lumenpulse project turn out a success.

Contact
Customer Support
techsupport@lumenpulse.com
877.937.3003

lumenpulse™

Corporate Headquarters

1751 Richardson
Suite 1505
Montreal, QC
Canada H3K 1G6

1.877.937.3003
T 514.937.3003
F 514.937.6289

US Headquarters

268 Summer Street
2nd Floor
Boston, MA
USA 02210

1.877.937.3003
T 617.307.5700
F 617.350.9912

EMEA Headquarters

The Leathermarket
11/13 Weston Street
Unit no 13.3.2
London
UK SE1 3ER

T +44 (0) 2031 765370
F +44 (0) 2031 765377

SE Asia Headquarters

25 Tagore Lane
#03-10
Singapore Godown
Singapore 787602

T +65 6305 7680

Lumenpulse AlphaLED

4th Avenue, The Village
Trafford Park, Manchester
UK M17 1DB

T +44 (0) 161 872 6868
F +44 (0) 161 872 6869

France Headquarters

19 Vivienne Street
Paris 75002
France

T +33 (0) 9 82 52 97 11

info@lumenpulse.com
www.lumenpulse.com

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